The ASTs contain both liquid and solid waste. The contents have been further subdivided based on analytical results. The listing below categorizes the AST contents:

Barge Waste Water:

AST	Volume	feaH	Waste	Codes
1101	v Olullic	1Carr	vv asic	Coucs

AST2	22,800 Benzene (D018) Chloroform (D022) 1,2-DCA (D028) TCE
(D040)	
AST13	1,350 Benzene (DO 18) TCE (D040)
AST15	11,900 Barium (D005) Benzene (DO 18) Chloroform (D022) 1,2-DCA
	(D028) PCE (D039) TCE (D040)
AST18	3,000 Ignitable < or @80°F
AST19	15,800 Ignitable @140°F Benzene (D018) 1,2-DCA (D028) PCE (D039)
	TCE (D040)
AST21	S5.SOQ Benzene fDOlfri Chloroform (D022'> 1.2-DCA (U028) TCE (D040>
	Total Volume: 110,350 gallons

Recommendations: These liquids contain concentrations of substances which exceed TCLP

standards but are less than 1% of the total volume of the liquids present. Evaluate disposaliptions including transport to a permitted waste water treatment facility, incineration or on sitere'atment.

Chloroform Product AST t

AST Volume (gal) Waste Codes AST17 2,300 Chloroform (D022)

Recommendation: Recycle product.

Solid Sludge Waste:

AST Volume feu yds) Waste Codes

AST13 4.5 Ignitable @100"F Benzene (DO 18) Carbon Tetrachloride (DO 19) 1,2-DCA (D028) PCE (D039) TCE (D040) VC (D043)

Recommendations: Solids contain regulated substances which exceed TCLP standards. Concentrations suggest material may be land band. Evaluate treatment options including disposal at low temperature thermal desorption treatment plant (kiln), incineration, or disposal at

a hazardous waste landfill.

Please note that a liquid knockout tank is present within the north berm area near AST6. This

tank was not sampled as it is a process vessel and access was restricted. It is possible that this

knockout tank contains hazardous liquids. There is potential for additional sludge to be present

on the bottom of some of the larger wastewater ASTs which was not sampled.

Wash Water:

AST ID AST1 8,400 187 AST3 ASTS 375 AST9 146 AST14* 10,000 AST22 3,400 AST24 8,000 AST25 8.000 Total Volume: 38,508 gal

Recommendations: Liquids do not contain regulated substances above TCLP standards. Evaluate disposal options including on site treatment via activated charcoal filtration, or transport to a permitted waste water treatment plant, or deep well injection.

The ASTs are contained within two berm areas at the site. These areas were labeled north berm

(sample SW2) and south berm (sample SW4). Analytical results indicate that there are no

compounds above TCLP standards in the berm water in either the north or south berm.

Approximate volumes of each berm (based on water levels measured during LTE's March 1999

field program) are listed below:

Berm Liquid Volume Contained (gal)

SW2 68.860

^{*} Tank contents not fully characterized - should be retested to verify non corrosive result. Recommendations: Liquids do not contain regulated substances above TCLP standards. Evaluate disposal options including on site treatment via activated charcoal filtration, or transport to a permitted waste water treatment plant, or deep well injection

SW4 57.790 '

Total Volume: 126,650 gal I

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Recommendations: Treatment as stormwater with no obvious sheen. Therefore, after verifying |

this type of discharge is permittable with the local authorities, can discharge to surface. As a r

best management practice (BMP), LTE suggests running the berm water through a carbon filter prior to discharge, as a final precaution.

3. Drums

Drums have all been moved and staged north of the AST Farm and labeled either with a sample

number or with an "E" for empty. Drums with corresponding sample numbers must be treated

alike, depending on the analytical results generated by both LTE and ECM & Associates. The following listing categorizes the drums and suggests disposal methods:

Sample ID # of Drums		# of Drums	Waste Codes	
DS2	Soil	13	Benzene (DO 18) Chloroform (D022) 1,2-DCA (D028)	
			PCE(D039)TCE(D040)	
DS4	Soil	13	Benzene (DO 18) Chloroform (D022) 1,2-DCA (D028)	
			PCE (D039) TCE (D040)	
DS5 Liquid/Soil Mix 3		x 3	Benzene (DO 18) 1,2-DCA (D028) TCE (D040)	
DS6	Oily Waste**	6	Benzene (DO 18) Carbon Tetrachloride (DO 19)	
Chloroform				
			(D022) 1,2-DCA (D028) PCE (D039) TCE (D040)	
DS7	Soil/Carbon Fi	lters 7	Benzene (DO 18) Carbon Tetrachloride (DO 19)	
Chloroform				
			(D022) 1,2-DCA (D028) 1,1-DCE (D029) PCE (D039)	
			TCE fD040)	

Total* of Drums: 42

** Drums included in DS6 may also contain chlorobenzene, 1,1-DCE, MEK, and/or VC. Sample was

diluted to complete analysis.

Recommendations: Drums contain regulated substances which exceed TCLP standards. Concentrations suggest material may be land band. Evaluate disposal options including treatment by low temperature thermal desorption (kiln), incineration or permitted landfill.

Sample IP # of Drums
DS1 Soil/Iron Flakes 7

DS3 Oily Rags 1
Empty -40
Oil Filters 2

Respirator Filters 1

Total # of Drums: 51

Recommendations: Disposal at a permitted solid waste landfill.

Sample ID # of Drums

DS8 Liquids 10 Total # of Drums: 10

Recommendations: Dispose

, Carnon Tetrachloride,

Sample	e ID	# of Drums	Waste Codes		
DS2	Soil	13	Benzene (DO 18) Chloroform (D022) 1,2-DCA (D028)		
			PCE(D039)TCE(D040)		
DS4	Soil	13	Benzene (DO 18) Chloroform (D022) 1,2-DCA (D028)		
			PCE (D039) TCE (D040)		
DS5 Liquid/Soil Mix 3		х 3	Benzene (DO 18) 1,2-DCA (D028) TCE (D040)		
DS6	Oily Waste**	6	Benzene (DO 18) Carbon Tetrachloride (DO 19)		
Chloroform					
			(D022) 1,2-DCA (D028) PCE (D039) TCE (D040)		
DS7	Soil/Carbon Fil	ters 7	Benzene (DO 18) Carbon Tetrachloride (DO 19)		
Chloroform					
			(D022) 1,2-DCA (D028) 1,1-DCE (D029) PCE (D039)		
			TCE fD040)		

Total* of Drums: 42

** Drums included in DS6 may also contain chlorobenzene, 1,1-DCE, MEK, and/or VC. Sample was diluted to complete analysis.

Recommendations: Drums contain regulated substances which exceed TCLP standards. Concentrations suggest material may be land band. Evaluate disposal options including treatment by low temperature thermal desorption (kiln), incineration or permitted landfill.

Sample IP # of Drums
DS1 Soil/Iron Flakes 7
DS3 Oily Rags 1
E Empty -40
Oil Filters 2

Respirator Filters 1

Total # of Drums: 51

Recommendations: Disposal at a permitted solid waste landfill.

of Drums

Sample ID DS8 Liquids 10

Total # of Drums: 10

Recommendations: Dispose